

## PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12177772/VPA	FOR FURTHER see Notification of Transmittal of International Search Report  ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)			
PCT/AU03/01133	3 September 2003		3 September 2002			
Applicant BIOPROSPECT LIMITED et	al					
This international search report has been prep Article 18. A copy is being transmitted to the	International Bureau.	earching Authority and	l is transmitted to the applicant according to			
This international search report consists of a t	·		·			
It is also accompanied by a copy	y of each prior art document	cited in this report.				
Basis of the report						
which it was filed, unless otherv	vise indicated under this iter	n.	of the international application in the language in			
(Rule 23.1(b)).		·	ternational application furnished to this Authority			
carried out on the basis of the se	equence listing:		national application, the international search was			
contained in the internatio	contained in the international application in written form.					
filed together with the inte	rnational application in con	nputer readable form.	•			
furnished subsequently to	this Authority in written for	m.				
furnished subsequently to	this Authority in computer r	eadable form.				
the statement that the subsapplication as filed has been	equently furnished written s en furnished.	equence listing does n	ot go beyond the disclosure in the international			
the statement that the infor furnished	mation recorded in compute	er readable form is ider	ntical to the written sequence listing has been			
2. X Certain claims were found uns	earchable (See Box I).	•				
3. Unity of invention is lacking (S	ee Box II).					
4. With regard to the title,	the text is approved as sub-	mitted by the applicant	 			
X	the text has been established					
EREMOPHILONE AND ERI	EMOPHILONE DER	IVATIVES FOR	PEST CONTROL			
5. With regard to the abstract, X	the text is approved as sub-	nitted by the applicant				
	the text has been established. The applicant may, within a submit comments to this A	one month from the da	8.2(b), by this Authority as it appears in Box III. te of mailing of this international search report,			
6. The figure of the drawings to be published with the abstract is Figure No.						
	as suggested by the applica		None of the figures			
	because the applicant failed	l to suggest a figure				
	because this figure better cl	haracterizes the inventi	ion			



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Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. Claims Nos:	
because they relate to subject matter not required to be searched by this Authority, namely:	
2. X Claims Nos: Claims 1-3, 7-8, 12, 16-28,32-33, 37, 41-60, 64-65, 69, 73-79 (all partially)	
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  See supplementary sheet	
3. Claims Nos:	
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)	
Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims	
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	t
Remark on Protest  The additional search fees were accompanied by the applicant's protest.	
No protest accompanied the payment of additional search fees.	



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<b>A.</b>	CLASSIFICATION OF SUBJECT MATTER					
Int. Cl. 7;	A01N 35/02, 65/00					
According to	International Patent Classification (IPC)	or to bo	th national classification and IPC			
В.	FIELDS SEARCHED					
Minimum docu	imentation searched (classification system foll	owed by	y classification symbols)			
Documentation	searched other than minimum documentation	to the e	extent that such documents are included in the fields searc	hed		
	IL?, PEST, INSECT, BIOCIDE, TER		of data base and, where practicable, search terms used) FUNGI, SUB-STRUCTURE SEARCH (BASE	ED ON		
C.	DOCUMENTS CONSIDERED TO BE RE	ELEVAI	NT			
Category* Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.		
X	Palombo E. et al, "Antibacterial activity of traditional Australian medicinal plants"  Journal of Ethnopharmacology Vol 77 (2001) p 151-157  (definition of pest in international application includes bacteria and viruses)			1-44, 47		
X	Semple SJ et al, "Screening of Australian medicinal plants for antiviral activity" Journal of Ethnopharmacology" Vol 60 (1998) p 163-172			1-44, 47		
X	WO 02/50053 A (US DEPARTME June 2002. Claims, page 2 line 22-page 3 line 1		F HEALTH AND HUMAN SERVICES) 27	1-3, 26-28, 58-60		
X F	urther documents are listed in the con	itinuati	ion of Box C X See patent family anno	ex		
A" docume which is relevant "E" earlier a after the	categories of cited documents: ent defining the general state of the art s not considered to be of particular ce application or patent but published on or e international filing date ent which may throw doubts on priority	"T" "X"	later document published after the international filing da and not in conflict with the application but cited to under or theory underlying the invention document of particular relevance; the claimed invention considered novel or cannot be considered to involve an when the document is taken alone document of particular relevance; the claimed invention	cannot be inventive step		
publication reason ( "O" docume exhibition docume	or which is cited to establish the tion date of another citation or other special (as specified) ent referring to an oral disclosure, use, on or other means ent published prior to the international filing t later than the priority date claimed	"&"	considered to involve an inventive step when the docume with one or more other such documents, such combination a person skilled in the art document member of the same patent family	ent is combined		
Date of the actu 29 Septembe	er 2003		Date of mailing of the international search report	8 OCT 2003		
AUSTRALIAN PO BOX 200, V E-mail address:	ing address of the ISA/AU I PATENT OFFICE WODEN ACT 2606, AUSTRALIA pct@ipaustralia.gov.au (02) 6285 3929		ROSS OSBORNE Telephone No: (02) 6283 2404	64		



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C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	US 5919552 B (MALHOTRA) 6 July 1999	
X	Claim 8	58-76
	US 5917084 B (JIANG) 29 June 1999	
Α	Whole document	1-79
	Reina M. et al, "Defensive chemistry of Senecio miser" J. Nat. Prod. (2001) V	701.64
	pages 6-11	01 04
Α	Abstract	1-79
	WO 02/089587 A (BIOPROSPECT LTD) 14 November 2002	
P, A	Abstract	1-79
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## Supplemental Box I

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No:

Claims 1-3, 7-8, 12, 16-28, 32-33, 37, 41-60, 64-65, 69, 73-79 (all partially) do not define the matter for which protection is sought in terms of the technical features of the invention (Rule 6.3(a)). The claims are not restricted to the technical features of the invention, these being identification of natural products with an eremophilone-like structure in oils from Eremophila species featuring certain insecticidal or pest antifeedant/repellant properties and the use of such products in pesticide compositions or on surfaces. The claims include multitudes of compounds not disclosed as being isolated or tested for approriate activities by the applicant and featuring only a loose structural relationship to the isolated compounds. Furthermore a search that covered all envisaged and claimed compounds proposed the applicant as having similar properties would be uneconomic. For these reasons the claims have only been fully searched in so far as they relate to the particular compounds isolated by the applicant and those claimed derivatives defined with cyclic ketone functionality and having the substituent at location R31 (see claim 4, formula III) limited to an alkyl based group of the type defined for R31. In terms of applications of the compounds the search has been basically restricted to wood associated pests for which there is substantial disclosure of activity, although citations for other claimed applications have been raised where the searcher is aware of them.

International application No.
PCT/AU03/01133

Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report		Patent Family Member				
WO	2002/50053	AU	45095/2002				
WO	2002/089587		NONE				
US	5919552		NONE				•
US	5917084	AU	43258/97	WO	98/00091	· US	6060509
							END OF ANNEX